VOLUME 27, PART I

SUBJECT INDEX

A

Abrasion.
See **Wearing Properties.**

Absorption.
Absorption tests on slate by four testing laboratories, 569.
Slate. Report of Committee D-16, 566.
Tentative Methods of:
Test for Water Absorption of Slate, 972.
Testing Electrical Porcelain, 981.
Testing Untreated Insulating Paper, 1013.

Acid, Determination of.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.

Admiralty Metal.
Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 1093.

Aggregates.
Concrete and Concrete Aggregates. Report of Committee C-9, 336.
Conditions Affecting the Durability of Concrete. Report of Sub-Committee X, Committee C-9, 349.
Editorial Committee. Report of Sub-Committee XII, Committee C-9, 352.
A Study of the Data of "Series 201" and Wisconsin Tests Showing the Relation of the Compressive Strength of Concrete to the Water-Cement Ratio, Space-Cement Ratio and Grading of the Aggregate, by R. A. Nelson, Report of Committee C-9, Appendix I, 361. Discussion, 386.
Tentative Methods of:
Test for Field Determination of Approximate Apparent Specific Gravity of Fine Aggregate, 794.
Test for Field Determination of Approximate Percentage of Voids in Fine Aggregate, 797.
Test for Field Determination of Surface Moisture in Fine Aggregate, 800.
Tentative Revisions of:
Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 1096.
Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1096.
Tentative Specifications for Sand for Use in Lime Plaster, 774.

VOLUME 27, PART I

SUBJECT INDEX

A

Abrasion.
See **Wearing Properties.**

Absorption.
Absorption tests on slate by four testing laboratories, 569.
Slate. Report of Committee D-16, 566.
Tentative Methods of:
Test for Water Absorption of Slate, 972.
Testing Electrical Porcelain, 981.
Testing Untreated Insulating Paper, 1013.

Acid, Determination of.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.

Admiralty Metal.
Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 1093.

Aggregates.
Concrete and Concrete Aggregates. Report of Committee C-9, 336.
Conditions Affecting the Durability of Concrete. Report of Sub-Committee X, Committee C-9, 349.
Editorial Committee. Report of Sub-Committee XII, Committee C-9, 352.
A Study of the Data of "Series 201" and Wisconsin Tests Showing the Relation of the Compressive Strength of Concrete to the Water-Cement Ratio, Space-Cement Ratio and Grading of the Aggregate, by R. A. Nelson, Report of Committee C-9, Appendix I, 361. Discussion, 386.
Tentative Methods of:
Test for Field Determination of Approximate Apparent Specific Gravity of Fine Aggregate, 794.
Test for Field Determination of Approximate Percentage of Voids in Fine Aggregate, 797.
Test for Field Determination of Surface Moisture in Fine Aggregate, 800.
Tentative Revisions of:
Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 1096.
Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1096.
Tentative Specifications for Sand for Use in Lime Plaster, 774.

Alloys.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Ferro-Alloys. Report of Committee A-9, 263.
Metallic Materials for Electrical Heating. Report of Committee B-4, 299.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Proposed Revisions of Standards and Tentative Standards for Non-Ferrous Metals and Alloys. Report of Committee B-2, Appendix, 278.
Tentative Definitions of Terms Relating to Heat Treatment Operations (Especially as Related to Ferrous Alloys), 703.
Tentative Methods of:
Chemical Analysis of Aluminum and Light Aluminum Alloys, 740.
Chemical Analysis of Metallic Materials for Electrical Heating, 761.
Test for Change of Resistance with Temperature of Metallic Materials for Electrical Heating, 757.
Tentative Specifications for:
Alloy Tool Steel, 676.
Bronze Castings in the Rough for Locomotive Wearing Parts, 718.
Bronze Trolley Wire, 709.
Car and Tender Journal Bearings, Lined, 721.
Non-Ferrous Insect Screen Cloth, 737.
Yellow Brass Sand Castings for General Purposes, 714.

Alloy Steel.
Discussion by J. B. Johnson on Etching of Steels with Various Reagents, Abstracted by George F. Comstock. Report of Committee E-4, Appendix, 601.
Discussion on Solutions for Carbides in Alloy Steels, 603.
Effect of Temperature on the Properties of Metals. Progress Report of the Joint Research Committee, 139.
Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I, 143.
Report on Thermal Expansion of Materials. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix II, 153.
Tentative Specifications for Alloy Tool Steel, 676.

Aluminum.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Proposed Revisions of Standards and Tentative Standards for Non-Ferrous Metals and Alloys. Report of Committee B-2, Appendix, 278.
Tentative Methods of Chemical Analysis of Aluminum and Light Aluminum Alloys, 740.
Tentative Specifications for Aluminum Powder for Paints, 860.

Anniversary Dinner.
Proceedings of the Twenty-Fifth-Anniversary Dinner, 47.

Annual Address.
Annual Address by the President, James H. Gibboney, 62.

Annual Meeting.
Proceedings of the Twenty-Fifth Anniversary Dinner, 47.
Summary of the Proceedings of the Thirtieth Annual Meeting, 13.

Anti-Fouling Paints.
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 430.

Ash.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.

Asphalt.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 516.
Tentative Methods of:
Sampling Petroleum and Petroleum Products, 896.
Test for Distillation of Bituminous Materials Suitable for Road Treatment, 954.

B

Bags.
Tentative Specifications and Tests for Cuban (Jute) Raw Sugar Bags, 1041.
Textile Materials. Report of Committee D-13, 555.

Bearings.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Tentative Specifications for:
Bronze Castings in the Rough for Locomotive Wearing Parts, 718.
Car and Tender Journal Bearings, Lined, 721.

Bituminous Coal.
See **Coal.**

Bituminous Materials.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 516.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Road and Paving Materials. Report of Committee D-4, 483.
Tentative Method of Test for Distillation of Bituminous Materials Suitable for Road Treatment, 954.
Tentative Specifications for:
Coal-Tar Pitch for Stone Block Filler, 952.
High-Carbon Tar Cement, 948.
High-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 940.
High-Carbon Tar for Surface Treatment, Cold Application, 936.
High-Carbon Tar for Surface Treatment, Hot Application, 944.
Low-Carbon Tar Cement, 950.
Low-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 942.
Low-Carbon Tar for Surface Treatment, Cold Application, 938.
Low-Carbon Tar for Surface Treatment, Hot Application, 946.

Boilers.
Tentative Specifications for:
Clay Fire Brick for Marine Boiler Service, 822.
Clay Fire Brick for Stationary Boiler Service, 815.
Marine Boiler Steel Plates, 658.
Rolled Zinc, 727.

Brass.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Proposed Revisions of Standards and Tentative Standards for Non-Ferrous Metals and Alloys. Report of Committee B-2, Appendix, 278
Tentative Revisions of:
Standard Specifications for Cartridge Brass, 1092.
Standard Specifications for Catridge Brass Disks, 1092.
Tentative Specifications for:
Car and Tender Journal Bearings, Lined, 721.
Yellow Brass Sand Castings for General Purposes, 714.

Brazing.
Tentative Specifications for Brazing Solder, 706.

Brick.
Brick. Report of Committee C-3, 313.
Refractories. Report of Committee C-8, 330.
Tentative Methods of:
Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 837.
Testing Brick, 826.
Tentative Revisions of:
Standard Method of Test for Softening Point of Fire-Clay Brick, 1094.
Standard Specifications for Paving Brick, 1093.
Tentative Specifications for:
Building Brick (Made from Clay or Shale), 803.
Clay Fire Brick for Malleable Furnaces with Removable Bungs and for Annealing Ovens, 810.
Clay Fire Brick for Marine Boiler Service, 822.
Clay Fire Brick for Stationary Boiler Service, 815.
Paving Brick, 805.

Brinell Hardness.
See **Hardness Testing.**

Bronze.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Tentative Specifications for:
Bronze Castings in the Rough for Locomotive Wearing Parts, 718.
Bronze Trolley Wire, 709.
Gold Bronze Powder, 861.

Building Brick.
See **Brick.**

Building Stones.
Natural Building Stones. Report of Committee D-18, 580.

Building Tile.
Hollow Masonry Building Units. Report of Committee C-10, 387.

C

Cable.
Tentative Specifications for Rubber Insulating Tape, 1028.

Carbon Residue.
Carbon Residue. Report of Sub-Committee XXIII, Committee D-2, 473.
Results of tests on oils of different carbon residues, 474.
Tentative Method of Test for Carbon Residue of Petroleum Products (Conradson Carbon Residue), 915.

Cars.
Tentative Specifications for Structural Steel for Locomotives and Cars, 651.

Castings.
Malleable Castings. Report of Committee A-7, 231.
Proposed Revisions in Standards. Report of Committee A-3, Appendix, 170.
Report of Sub-Sub-Committee on Size and Location of Test Coupons on Steel Castings. Report of Committee A-1, Appendix I, 114.
Tentative Revisions of:
Standard Specifications for Gray-Iron Castings, 1089.
Standard Specifications for High-Test Gray-Iron Castings, 1091.
Tentative Specifications for:
Bronze Castings in the Rough for Locomotive Wearing Parts, 718.
Yellow Brass Sand Castings for General Purposes, 714.

Cast Iron.
Cast Iron. Report of Committee A-3, 167.
Proposed Revisions in Standards. Report of Committee A-3, Appendix, 170.
Specifications for Zinc Coating of Iron and Steel, Report of Sectional Committee, 222.
Tentative Revisions of:
Standard Specifications for Cast-Iron Soil Pipe and Fittings, 1090.
Standard Specifications for Gray-Iron Castings, 1089.
Standard Specifications for High-Test Gray-Iron Castings, 1091.

Cement.
Cement. Report of Committee C-1, 304.
Clay and Cement-Concrete Pipe. Report of Committee C-4, 316.
Conditions Affecting the Durability of Concrete. Report of Sub-Committee X, Committee C-9, 349.
Recommended Revision of Chapter V of the 1924 Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete. Report of Committee C-9, Appendix II, 383.

Cement (*Continued*):
A Study of the Data of "Series 201" and Wisconsin Tests Showing the Relation of the Compressive Strength of Concrete to the Water-Cement Ratio, Space-Cement Ratio and Grading of the Aggregate, by R. A. Nelson. Report of Committee C-9, Appendix I, 361. Discussion, 386.
Tentative Revision of Standard Specifications and Tests for Portland Cement, 1093.
Tests of Fluid Cement-Water Mixtures. Report of Committee C-1, Appendix, 307.

Chrome Oxide Green.
Tentative Specifications for Chrome Oxide Green, 854.

Chrome Steels.
See **Alloy Steel.**

Clay Hollow Tile.
See **Tile.**

Clay Products.
Clay and Cement-Concrete Pipe. Report of Committee C-4, 316.
Drain Tile. Report of Committee C-6, 318.
Hollow Masonry Building Units. Report of Committee C-10, 387.
Refractories. Report of Committee C-8, 330.
Tentative Definitions of Terms Relating to Refractories, 839.
Tentative Methods of:
Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 837.
Testing Electrical Porcelain, 981.
Tentative Revisions of:
Standard Definitions of Clay Refractories, 1095.
Standard Method of Test for Softening Point of Fire-Clay Brick, 1094.
Tentative Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile, 841.

Cloud Point.
Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 919.

Coal.
Coal and Coke. Report of Committee D-5, 492.
Proposed Method of Test for Cubic Foot Weight of Crushed Bituminous Coal. Report of Committee D-5, Appendix II, 499.
Proposed Method of Test for Sieve Analysis of Crushed Bituminous Coal. Report of Committee D-5, Appendix IV, 502.
Tentative Definitions of Terms Relating to Coal and Coke, 962.
Tentative Methods for the Determination of Sulfur in Coal and Coke by the Bomb-Washing and Sodium Peroxide Fusion Methods, 959.
Tentative Revision of Standard Methods of Laboratory Sampling and Analysis of Coal and Coke, 1098.

Coatings.
See **Galvanizing; Protective Coatings; Terne Plate.**

Coke.
Coal and Coke. Report of Committee D-5, 492.
Proposed Method of Test for Cubic Foot Weight of Coke. Report of Committee D-5, Appendix I, 497.
Proposed Method of Test for Sieve Analysis of Coke. Report of Committee D-5, Appendix III, 500.
Tentative Definitions of Terms Relating to Coal and Coke, 962.
Tentative Methods for the Determination of Sulfur in Coal and Coke by the Bomb-Washing and Sodium Peroxide Fusion Methods, 959.
Tentative Revision of Standard Methods of Laboratory Sampling and Analysis of Coal and Coke, 1098.

Commercial Para Red.
Tentative Specifications for Commercial Para Red, 856.

Compression Testing.
Design of Concrete. Report of Sub-Committee IV, Committee C-9, 345.
Methods of Testing. Report of Committee E-1, 584.
A Study of the Data of "Series 201" and Wisconsin Tests Showing the Relation of the Compressive Strength of Concrete to the Water-Cement Ratio, Space-Cement Ratio and Grading of the Aggregate, by R. A. Nelson. Report of Committee C-9, Appendix I, 361. Discussion, 386.
Tentative Methods of:
Compression Testing of Metallic Materials, 1081.
Testing Brick, 826.
Testing Electrical Porcelain, 981.
Tests of Fluid Cement-Water Mixtures. Report of Committee C-1, Appendix, 307.

Concrete.
Clay and Cement-Concrete Pipe. Report of Committee C-4, 316.
Concrete and Concrete Aggregates. Report of Committee C-9, 336.
Conditions Affecting the Durability of Concrete. Report of Sub-Committee X, Committee C-9, 349.
Design of Concrete. Report of Sub-Committee IV, Committee C-9, 345.
Drain Tile. Report of Committee C-6, 318.
Editorial Committee. Report of Sub-Committee XII, Committee C-9, 352.
Joint Committee on Concrete Culvert Pipe. Report of Society Representatives, 321.
Recommended Revision of Chapter V of the 1924 Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete. Report of Committee C-9, Appendix II, 383.
A Study of the Data of "Series 201" and Wisconsin Tests Showing the Relation of the Compressive Strength of Concrete to the Water-Cement Ratio, Space-Cement Ratio and Grading of the Aggregate, by R. A. Nelson. Report of Committee C-9, Appendix I, 361. Discussion, 386.
Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 1094.

Condenser Tubes.
Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 1093.

Consistency.
Petrolatum. Report of Sub-Committee I, Committee D-2, 448.
Tests of Fluid Cement-Water Mixtures. Report of Committee C-1, Appendix, 307.

Copper.
Copper Wire. Report of Committee B-1, 266.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Metallic Materials for Electrical Heating. Report of Committee B-4, 299.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Proposed Revisions of Standards and Tentative Standards for Non-Ferrous Metals and Alloys. Report of Committee B-2, Appendix, 278.
Screen Wire Cloth. Report of Committee D-14, 562.
Tentative Method of Test for Change of Resistance with Temperature of Metallic Materials for Electrical Heating, 757.
Tentative Specifications for:
Brazing Solder, 706.
Bronze Castings in the Rough for Locomotive Wearing Parts, 718.
Bronze Trolley Wire, 709.
Copper Tubing for Refrigerators, 725.
Non-Ferrous Insect Screen Cloth, 737.
Yellow Brass Sand Castings for General Purposes, 714.

Copper Wire.
Copper Wire. Report of Committee B-1, 266.

Corrosion.
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 430.
Corrosion of Iron and Steel. Report of Committee A-5, 175.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Inspection of the Fort Sheridan and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 180.
Methods of Testing. Report of Sub-Committee VII, Committee A-5, 188.
Specifications for Metallic-Coated Products. Report of Sub-Committee VI, Committee A-5, 186.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 183.

Cotton.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.
Tentative Specifications for Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1039.
Textile Materials. Report of Committee D-13, 555.

Crankcase Dilution.
Crankcase Dilution. Report of Sub-Committee XXV, Committee D-2, 477.

Creosote Oil.
Preservatives. Report of Sub-Committee VI, Committee D-7, 507.
Results of distillation tests on creosote oil, employing three methods of shielding flask, 508.
Tentative Method of Test for Distillation of Creosote Oil, 963.

Cubic Foot Weight.
Proposed Method of Test for Cubic Foot Weight of Coke. Report of Committee D-5, Appendix I, 497.
Proposed Method of Test for Cubic Foot Weight of Crushed Bituminous Coal. Report of Committee D-5, Appendix II, 499.

Culvert Pipe.
Joint Committee on Concrete Culvert Pipe. Report of Society Representatives, 321.

D

Definitions.
See **Nomenclature.**

Dielectric Strength.
Electrical Insulating Materials. Report of Committee D-9, 525.
Tentative Methods of:
Testing Electrical Insulating Materials for Power Factor and Dielectric Constant at Frequencies of 100 to 1500 Kilocycles, 1003.
Testing Electrical Porcelain, 981.
Testing Sheet and Tape Insulating Materials for Dielectric Strength, 995.

Distillation.
Results of distillation tests on creosote oil, employing three methods of shielding flask, 508.
Tentative Methods of:
Test for Distillation of Bituminous Materials Suitable for Road Treatment, 954.
Test for Distillation of Creosote Oil, 963.

Drain Tile.
Drain Tile. Report of Committee C-6, 318.

Durability of Concrete.
Conditions Affecting the Durability of Concrete. Report of Sub-Committee X, Committee C-9, 349.

Duroscope.
The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, by J. A. Sams. Report of Committee A-8, Appendix IV, 252.

E

Effect of Temperature.
Effect of Temperature on the Properties of Metals. Progress Report of the Joint Research Committee, 139.
Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I, 143.
Report on Thermal Expansion of Materials. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix II, 153.
Tentative Methods of Test for Change of Resistance with Temperature of Metallic Materials for Electrical Heating, 757.

Elasticity.
Tentative Methods of Tension Testing of Metallic Materials, 1067.

Electrical Heating.
Metallic Materials for Electrical Heating. Report of Committee B-4, 299.
Tentative Methods of:
Chemical Analysis of Metallic Materials for Electrical Heating, 761.
Test for Change of Resistance with Temperature of Metallic Materials for Electrical Heating, 757.

Electrical Porcelain.
Tentative Methods of Testing Electrical Porcelain, 981.

Emulsification.
Turbine Oils. Report of Sub-Committee XI, Committee D-2, 469.

Executive Committee.
Annual Report of the Executive Committee, 71.

F

Fabrics.
Tentative Specifications for Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1039.

Felt.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Tentative Methods of Analysis of Roofing Felt for Fiber Composition, 968.

Fencing.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Specifications for Metallic-Coated Products. Report of Sub-Committee VI, Committee A-5, 186.
Tentative Methods of Testing Zinc-Coated (Galvanized) Iron and Steel Wire and Wire Products, 696.
Tentative Specifications for:
Zinc-Coated Chain-Link Fence Fabric Galvanized After Weaving, 690.
Zinc-Coated Chain-Link Fence Fabric Galvanized Before Weaving, 693.
Zinc-Coated (Galvanized) Wire Fencing, 687.

Ferro-Alloys.
Ferro-Alloys. Report of Committee A-9, 263.

Fibers.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.
Tentative Methods of Analysis of Roofing Felt for Fiber Composition, 968.

Filler.
Tentative Specifications for Coal-Tar Pitch for Stone Block Filler, 952.

Fire Brick.
Refractories. Report of Committee C-8, 330.
Tentative Method of Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 837.
Tentative Revision of Standard Method of Test for Softening Point of Fire-Clay Brick, 1094.
Tentative Specifications for:
Clay Fire Brick for Malleable Furnaces with Removable Bungs and for Annealing Ovens, 810.
Clay Fire Brick for Marine Boiler Service, 822.
Clay Fire Brick for Stationary Boiler Service, 815.

Fireproofing.
Tentative Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile, 841.

Flanges.
Tentative Specifications for Forged or Rolled Steel Pipe Flanges for High-Temperature Service, 663.

Flax.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.

Flexure Testing.
Tentative Methods of Flexure Testing of Slate, 974.

Foots Determination.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.

Forgings.
Tentative Specifications for Forged or Rolled Steel Pipe Flanges for High-Temperature Service, 663.

Free Acid.
Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 927.

Free Alkali.
Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 927.

Fuel Oil.
Considerations Involved in the Preparation of Specifications for Domestic Oil Fuel. Report of Sub-Committee XXVII, Committee D-2, Appendix, 479.
Proposed Form of Specifications for Domestic Oil Fuel, Class "A." Report of Committee D-2, 481.
Proposed Form of Specifications for Domestic Oil Fuel, Class "B." Report of Committee D-2, 482.
Sulfur Determination and Differentiation. Report of Sub-Committee VII, Committee D-2, 456.

Furnaces.
Tentative Specifications for Clay Fire Brick for Malleable Furnaces with Removable Bungs and for Annealing Ovens, 810.

G

Galvanizing.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Methods of Testing. Report of Sub-Committee VII, Committee A-5, 188.
Specifications for Metallic-Coated Products. Report of Sub-Committee VI, Committee A-5, 186.
Specifications for Zinc Coating of Iron and Steel, Report of Sectional Committee, 222.
Tentative Methods of Testing Zinc-Coated (Galvanized) Iron and Steel Wire and Wire Products, 696.
Tentative Specifications for:
Zinc-Coated Chain-Link Fence Fabric Galvanized After Weaving, 690.
Zinc-Coated Chain-Link Fence Fabric Galvanized Before Weaving, 693.
Zinc-Coated (Galvanized) Iron or Steel Telephone and Telegraph Line Wire, 679.
Zinc-Coated (Galvanized) Iron or Steel Tie Wires, 684.
Zinc-Coated (Galvanized) Wire Fencing, 687.

Gas Oils.
Tentative Methods of Sampling Petroleum and Petroleum Products, 896.

Gasoline.
Tentative Methods of:
Test for Detection of Free Sulfur and Corrosive Sulfur Compounds in Gasoline, 926.
Sampling Petroleum and Petroleum Products, 896.

Gold Bronze.
Tentative Specifications for Gold Bronze Powder, 861.

Grease.
Grease. Report of Sub-Committee IV, Committee D-2, 455.
Petrolatum. Report of Sub-Committee I, Committee D-2, 448.
Petroleum Products and Lubricants. Report of Committee D-2, 439.
Tentative Methods of:
Sampling Petroleum and Petroleum Products, 896.
Test for Penetration of Greases and Petrolatum, 930.

Gypsum.
Gypsum. Report of Committee C-11, 393.
Tentative Definitions of Terms Relating to the Gypsum Industry, 793.
Tentative Revision of Standard Definitions of Terms Relating to the Gypsum Industry, 1095.

H

Hardness Testing.
Methods of Testing. Report of Committee E-1, 584.
The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, by J. A. Sams. Report of Committee A-8, Appendix IV, 252.

Heat Treatment.
Heat Treatment of Iron and Steel. Report of Committee A-4, 173.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committee A-8, Appendix II, 241.
A Method of Graphic Representation of Magnetic Characteristics, by A. V. de Forest. Report of Committee A-8, Appendix I, 234. Discussion, 260.
Tentative Definitions of Terms Relating to Heat Treatment Operations (Especially as Related to Ferrous Alloys), 703.
Tentative Specifications for Forged or Rolled Steel Pipe Flanges for High-Temperature Service, 663.
X-ray Studies of High-Speed Steel, by Ancel St. John. Report of Committee A-8, Appendix III, 247.

Hemp.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.

High Temperature.
Oxidation at High Temperatures. Report of Sub-Committee X, Committee D-2, 460.
Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I, 143.
Tentative Specifications for:
Forged or Rolled Steel Pipe Flanges for High-Temperature Service, 663.
Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 667.

Hollow Tile.
See **Tile.**

I

Immersion.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 183.

Impact Testing.
Methods of Testing. Report of Committee E-1, 584.
Tentative Methods of Testing Electrical Porcelain, 981.

Insulating Materials.
Electrical Insulating Materials. Report of Committee D-9, 525.
Life Test for Transformer Oils. Report of Committee D-9, Appendix, 541.
Rubber Products. Report of Committee D-11, 550.
Slate. Report of Committee D-16, 566.
Tentative Methods of
Test for Determining the Insulating Qualities of Slate, 978.
Testing Sheet and Tape Insulating Materials for Dielectric Strength, 995.
Testing Electrical Insulating Materials for Power Factor and Dielectric Constant at Frequencies of 100 to 1500 Kilocycles, 1003.
Testing Untreated Insulating Paper, 1013.

Insulating **Materials** (*Continued*):
Tentative Revision of Standard Methods of Testing Molded Insulating Materials, 1099.
Tentative Specifications for Rubber Insulating Tape, 1028.
Iodine Number.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.
Iron.
Cast Iron. Report of Committee A-3, 167.
Corrosion of Iron and Steel. Report of Committee A-5, 175.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Heat Treatment of Iron and Steel. Report of Committee A-4, 173.
Inspection of the Fort Sheridan and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 180.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committee A-8, Appendix II, 241.
Magnetic Analysis. Report of Committee A-8, 232.
Magnetic Properties. Report of Committee A-6, 225.
Malleable Castings. Report of Committee A-7, 231.
Metallic Materials for Electrical Heating. Report of Committee B-4, 299.
A Method of Graphic Representation of Magnetic Characteristics, by A. V. de Forest. Report of Committee A-8, Appendix I, 234. Discussion, 260.
Proposed Revisions in Standards. Report of Committee A-3, Appendix, 170.
Proposed Standardization of Magnetic Terms, Units and Symbols. Report of Sub-Committee I, Committee A-6, Appendix, 228.
Specifications for Metallic-Coated Products. Report of Sub-Committee VI, Committee A-5, 186.
Specifications for Zinc Coating of Iron and Steel. Report of Sectional Committee, 222.
Tentative Definitions of Terms Relating to Heat Treatment Operations (Especially as Related to Ferrous Alloys), 703.
Tentative Methods of:
Test for Magnetic Properties of Iron and Steel at Low Inductions for Audio and Power Frequencies, 698.
Testing Zinc-Coated (Galvanized) Iron and Steel Wire and Wire Products, 696.
Tentative Revisions of:
Standard Methods of Test for Magnetic Properties of Iron and Steel, 1091.
Standard Specifications for Cast-Iron Soil Pipe and Fittings, 1090.
Standard Specifications for Gray-Iron Castings, 1089.
Standard Specifications for High-Test Gray-Iron Castings, 1091.
Tentative Specifications for:
Zinc-Coated Chain-Link Fence Fabric Galvanized After Weaving, 690.
Zinc-Coated Chain-Link Fence Fabric Galvanized Before Weaving, 693.
Zinc-Coated (Galvanized) Iron or Steel Telephone and Telegraph Line Wire, 679.
Zinc-Coated (Galvanized) Iron or Steel Tie Wires, 684.
Zinc-Coated (Galvanized) Wire Fencing, 687.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 183.
Wrought Iron. Report of Committee A-2, 163.

J

Jute.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.
Tentative Specifications and Tests for Cuban (Jute) Raw Sugar Bags, 1041.

K

Kerosine.
Proposed Form of Specifications for Domestic Oil Fuel, Class "A." Report of Committee D-2, 481.

L

Lacquer.
Cellulose Ester Coatings. Report of Sub-Committee XXV, Committee D-1, 438.
Tentative Methods of Sampling and Testing Lacquer Solvents and Diluents, 870.
Lead.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Life Test.
Life Test for Transformer Oils. Report of Committee D-9, Appendix, 541.
Lime.
Lime. Report of Committee C-7, 324.
Tentative Methods of Chemical Analysis of Limestone, Quicklime and Hydrated Lime, 776.
Tentative Revision of Standard Specifications for Hydrated Lime for Structural Purposes, 1094.
Tentative Specifications for Sand for Use in Lime Plaster, 774.
Linseed Oil.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.
Tentative Methods of Routine Analysis of White Linseed Oil Paints, 873.
Tentative Specifications for Boiled Linseed Oil, 846.
Locomotives.
Tentative Specifications for:
Bronze Castings in the Rough for Locomotive Wearing Parts, 718.
Car and Tender Journal Bearings, Lined, 721.
Structural Steel for Locomotives and Cars, 651.
Lubricants.
Grease. Report of Sub-Committee IV, Committee D-2, 455.
Petroleum Products and Lubricants. Report of Committee D-2, 439.
Tentative Methods of:
Sampling Petroleum and Petroleum Products, 896.
Test for Carbon Residue of Petroleum Products (Conradson Carbon Residue), 915.
Test for Cloud and Pour Points of Petroleum Products, 919.
Test for Neutralization Number of Petroleum Products and Lubricants 927.
Test for Penetration of Greases and Petrolatum, 930.
Lumber.
See **Timber.**

M

Magnetic Testing.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committees A-8, Appendix II, 241.
Magnetic Analysis. Report of Committee A-8, 232.
Magnetic Properties. Report of Committee A-6, 225.
A Method of Graphic Representation of Magnetic Characteristics, by A. V de Forest. Report of Committee A-8, Appendix I, 234. Discussion, 260.
Nomenclature and Definitions. Report of Sub-Committee I, Committee A-6, 227.
Proposed Standardization of Magnetic Terms, Units and Symbols. Report of Sub-Committee I, Committee A-6, Appendix, 228.
Tentative Method of Test for Magnetic Properties of Iron and Steel at Low Inductions for Audio and Power Frequencies, 698.
Tentative Revision of Standard Methods of Test for Magnetic Properties of Iron and Steel, 1091.
The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, by J. A. Sams. Report of Committee A-8, Appendix IV, 252.
X-ray Studies of High-Speed Steel, by Ancel St. John. Report of Committee A-8, Appendix III, 247.

Malleable Castings.
Malleable Castings. Report of Committee A-7, 231.

Marine Boiler.
Tentative Specifications for Marine Boiler Steel Plates, 658.

Mechanical Analysis.
Proposed Method of Test for Sieve Analysis of Coke. Report of Committee D-5, Appendix III, 500.
Proposed Method of Test for Sieve Analysis of Crushed Bituminous Coal. Report of Committee D-5, Appendix IV, 502.

Melting Point.
Petrolatum. Report of Sub-Committee I, Committee D-2, 448.

Metallography.
Discussion by J. B. Johnson on Etching of Steels with Various Reagents, Abstracted by George F. Comstock, Report of Committee E-4, Appendix, 601.
Discussion on Solutions for Carbides in Alloy Steels, 603.
Metallography. Report of Committee E-4, 597.

Moisture.
Moisture Determination. Report of Sub-Committee XI, Committee D-7, 513.

N

Naphtha.
Tentative Methods of Sampling Petroleum and Petroleum Products, 896.

Naval Stores.
Naval Stores. Report of Committee D-17, 578.

Neutralization.
Tentative Method of Test for Neutralization Number of Petroleum Products and Lubricants, 927.

Nickel.
Metallic Materials for Electrical Heating. Report of Committee B-4, 299.
Report on Thermal Expansion of Materials. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix II, 153.

Nomenclature.
Nomenclature and Definitions. Report of Committee E-8, 622.
Nomenclature and Definitions. Report of Sub-Committee I, Committee A-6, 227.
Proposed Standardization of Magnetic Terms, Units and Symbols. Report of Sub-Committee I, Committee A-6, Appendix, 228.
Tentative Definitions of:
Terms Relating to Coal and Coke, 962.
Terms Relating to Heat Treatment Operations (Especially as Related to Ferrous Alloys), 703.
Terms Relating to Refractories, 839.
Terms Relating to Textile Materials, 1066.
Terms Relating to the Gypsum Industry, 793.
Tentative Revisions of:
Standard Definitions for Clay Refractories, 1095.
Standard Definitions of Terms Relating to Paint Specifications, 1100.
Standard Definitions of Terms Relating to the Gypsum Industry, 1095.

O

Oils.
Carbon Residue. Report of Sub-Committee XXIII, Committee D-2, 473.
Considerations Involved in the Preparation of Specifications for Domestic Oil Fuel. Report of Sub-Committee XXVII, Committee D-2, Appendix, 479.
Crankcase Dilution. Report of Sub-Committee XXV, Committee D-2, 477.
Life Test for Transformer Oils. Report of Committee D-9, Appendix, 541.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.
Oxidation at High Temperatures. Report of Sub-Committee X, Committee D-2, 460.
Petroleum Products and Lubricants. Report of Committee D-2, 439.
Precipitation. Report of Sub-Committee IX, Committee D-2, 458.
Proposed Form of Specifications for Domestic Oil Fuel, Class "A." Report of Committee D-2, 481.
Proposed Form of Specifications for Domestic Oil Fuel, Class "B." Report of Committee B-2, 482.
Proposed Method of Determining Oil in Refined and Semi-Refined Wax. Report of Sub-Committee III, Committee D-2, Appendix, 452.
Proposed Oxidation Test for Mineral Oils (Sligh Method). Report of Sub-Committee X, Committee D-2, Appendix, 461.
Results of tests on oils of different carbon residues, 474.
Results of tests on sulfur determination by A.S.T.M. Method D 90 – 26 T and Kennedy vapor lamp method, 456.

Oils (*Continued*):
Sulfur Determination and Differentiation. Report of Sub-Committee VII, Committee D-2, 456.
Tentative Methods of:
Sampling Petroleum and Petroleum Products, 896.
Test for Carbon Residue of Petroleum Products (Conradson Carbon Residue), 915.
Test for Cloud and Pour Points of Petroleum Products, 919.
Test for Distillation of Creosote Oil, 963.
Turbine Oils. Report of Sub-Committee XI, Committee D-2, 469.

Oscillograph.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committee A-8, Appendix II, 241.
A Method of Graphic Representation of Magnetic Characteristics, by A. V. de Forest. Report of Committee A-8, Appendix I, 234.

Oxidation.
Oxidation at High Temperatures. Report of Sub-Committee X, Committee D-2, 460.
Proposed Oxidation Test for Mineral Oils (Sligh Method). Report of Sub-Committee X, Committee D-2, Appendix, 461.
Turbine Oils. Report of Sub-Committee XI, Committee D-2, 469.

P

Paints.
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 430.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.
Methods of Analysis of Paint Materials. Report of Sub-Committee VIII, Committee D-1, 410.
Preservative Coatings for Structural Materials. Report of Committee D-1, 396.
Shellac. Report of Sub-Committee XIII, Committee D-1, 424.
Specifications for Pigments Dry and in Oil when Marketed in that Form. Report of Sub-Committee XV, Committee D-1, 427.
Tentative Methods of Routine Analysis of White Linseed Oil Paints, 873.
Tentative Revision of Standard Definitions of Terms Relating to Paint Specifications, 1100.
Tentative Specifications for:
Aluminum Powder for Paints, 860.
Gold Bronze Powder, 861.

Paint Vehicles.
Tentative Specifications for Boiled Linseed Oil, 846.

Paper.
Tentative Methods of Testing Untreated Insulating Paper, 1013.

Papers.
Papers and Publications. Report of Committee E-6, 619.

Paraffin Wax.
Paraffin Wax. Report of Sub-Committee III, Committee D-2, 450.

Paving Brick.
Brick Report of Committee C-3, 313.
Tentative Revision of Standard Specifications for Paving Brick, 1093.
Tentative Specifications for Paving Brick, 805.

Paving Materials.
See **Road Materials.**

Penetration.
Tentative Method of Test for Penetration of Greases and Petrolatum, 930.

Petrolatum.
Petrolatum. Report of Sub-Committee I, Committee D-2, 448.
Tentative Method of Test for Penetration of Greases and Petrolatum, 930.
Tentative Methods of Sampling Petroleum and Petroleum Products, 896.

Petroleum Products.
Application of Tests. Report of Sub-Committee XXVII, Committee D-2, 478.
Carbon Residue. Report of Sub-Committee XXIII, Committee D-2, 473.
Considerations Involved in the Preparation of Specifications for Domestic Oil Fuel. Report of Sub-Committee XXVII, Committee D-2, Appendix, 479.
Crankcase Dilution. Report of Sub-Committee XXV, Committee D-2, 477.
Grease. Report of Sub-Committee IV, Committee D-2, 455.
Oxidation at High Temperatures. Report of Sub-Committee X, Committee D-2, 460.
Petrolatum. Report of Sub-Committee I, Committee D-2, 448.
Petroleum Products and Lubricants. Report of Committee D-2, 439.
Precipitation. Report of Sub-Committee IX, Committee D-2, 458.
Proposed Form of Specifications for Domestic Oil Fuel, Class "A." Report of Committee D-2, 481.
Proposed Form of Specifications for Domestic Oil Fuel, Class "B." Report of Committee D-2, 482.
Proposed Method of Determining Oil in Refined and Semi-Refined Wax. Report of Sub-Committee III, Committee D-2, Appendix, 452.
Proposed Oxidation Test for Mineral Oils (Sligh Method). Report of Sub-Committee X, Committee D-2, Appendix, 461.
Results of tests on sulfur determination by A.S.T.M. Method D 90 – 26 T and Kennedy vapor lamp method, 456.
Sulfur Determination and Differentiation. Report of Sub-Committee VII, Committee D-2, 456.
Tentative Methods of:
Sampling Petroleum and Petroleum Products, 896.
Test for Carbon Residue of Petroleum Products (Conradson Carbon Residue), 915.
Test for Cloud and Pour Points of Petroleum Products, 919.
Test for Detection of Free Sulfur and Corrosive Sulfur Compounds in Gasoline, 926.
Test for Neutralization Number of Petroleum Products and Lubricants, 927.
Test for Penetration of Greases and Petrolatum, 930.
Turbine Oils. Report of Sub-Committee XI, Committee D-2, 469.

Phase Difference.
Tentative Methods of Testing Electrical Insulating Materials for Power Factor and Dielectric Constant at Frequencies of 100 to 1500 Kilocycles, 1003.

Phosphorus.
Effect of Sulfur on Plate Material: Conclusions. Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel, 135.
Investigation of the Effect of Phosphorus and Sulfur in Steel. Progress Report of the Joint Committee, 131.

Pigments.
Methods of Analysis of Paint Materials. Report of Sub-Committee VIII, Committee D-1, 410.
Preservative Coatings for Structural Materials. Report of Committee D-1, 396.
Specifications for Pigments Dry and in Oil when Marketed in that Form. Report of Sub-Committee XV, Committee D-1, 427.
Tentative Specifications for:
Chrome Oxide Green, 854.
Commercial Para Red, 856.
Prussian Blue, 850.
Titanium Barium Pigment, 858.
Ultramarine Blue, 852.

Pipe.
Clay and Cement-Concrete Pipe. Report of Committee C-4, 316.
Joint Committee on Concrete Culvert Pipe. Report of Society Representatives, 321.
Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning. Report of Committee A-1, Appendix II, 115.
Tentative Revisions of:
Standard Specifications for Cast-Iron Soil Pipe and Fittings, 1090.
Standard Specifications for Cement-Concrete Sewer Pipe, 1094.
Tentative Specifications for Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 667.

Pitch.
Tentative Specifications for Coal-Tar Pitch for Stone Block Filler, 952.

Plaster.
Gypsum. Report of Committee C-11, 393.
Lime. Report of Committee C-7, 324.
Tentative Definitions of Terms Relating to the Gypsum Industry, 793.
Tentative Specifications for Sand for Use in Lime Plaster, 774.

Plates.
Effect of Sulfur on Plate Material: Conclusions. Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel, 135.
Tentative Specifications for:
Marine Boiler Steel Plates, 658.
Structural Steel for Locomotives and Cars, 651.

Porosity.
Tentative Methods of Testing Electrical Porcelain, 981.

Pour Point.
Tentative Method of Test for Cloud and Pour Points of Petroleum Products, 919.

Power Factor.
Tentative Methods of Testing Electrical Insulating Materials for Power Factor and Dielectric Constant at Frequencies of 100 to 1500 Kilocycles, 1003.

Precipitation.
Precipitation. Report of Sub-Committee IX, Committee D-2, 458.

Protective Coatings.
See also **Galvanizing.**
Anti-Fouling Paints. Report of Sub-Committee XXIII, Committee D-1, 430.
Cellulose Ester Coatings. Report of Sub-Committee XXV, Committee D-1, 438.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.
Methods of Analysis of Paint Materials. Report of Sub-Committee VIII, Committee D-1, 410.
Preservative Coatings for Structural Materials. Report of Committee D-1, 396.
Shellac. Report of Sub-Committee XIII, Committee D-1, 424.
Specifications for Pigments Dry and in Oil when Marketed in that Form. Report of Sub-Committee XV, Committee D-1, 427.
Tentative Methods of:
Routine Analysis of White Linseed Oil Paints, 873.
Sampling and Testing Lacquer Solvents and Diluents, 870.
Testing Shellac Varnish, 862.
Tentative Revisions of:
Standard Definitions of Terms Relating to Paint Specifications, 1100.
Standard Methods of Testing Oleo-Resinous Varnishes, 1098.
Standard Methods of Testing Shellac, 1098.
Tentative Specifications for:
Aluminum Powder for Paints, 860.
Boiled Linseed Oil, 846.
Chrome Oxide Green, 854.
Commercial Para Red, 856.
Gold Bronze Powder, 861.
Prussian Blue, 850.
Titanium Barium Pigment, 858.
Ultramarine Blue, 852.

Prussian Blue.
Tentative Specifications for Prussian Blue, 850.

Publications.
Papers and Publications. Report of Committee E-6, 619.

R

Radio Frequencies.
Tentative Methods of Testing Electrical Insulating Materials for Power Factor and Dielectric Constant at Frequencies of 100 to 1500 Kilocycles, 1003.

Ramie.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.

Rattler Test.
Tentative Methods of Testing Brick, 826.

Rayon.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.
Tentative Specifications for Tolerances and Test Methods for Rayon, 1032.
Textile Materials. Report of Committee D-13, 555.

Refractories.
Refractories. Report of Committee C-8, 330.
Tentative Definitions of Terms Relating to Refractories, 839.
Tentative Method of Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 837.
Tentative Revisions of:
Standard Definitions of Clay Refractories, 1095.
Standard Method of Test for Softening Point of Fire-Clay Brick, 1094.
Tentative Specifications for:
Clay Fire Brick for Malleable Furnaces with Removable Bungs and for Annealing Ovens, 810.
Clay Fire Brick for Marine Boiler Service, 822.
Clay Fire Brick for Stationary Boiler Service, 815.

Refrigerators.
Tentative Specifications for Copper Tubing for Refrigerators, 725.

Reinforced Concrete.
Recommended Revision of Chapter V of the 1924 Report of the Joint Committee on Standard Specifications for Concrete and Reinforced Concrete. Report of Committee C-9, Appendix II, 383.

Research.
Correlation of Research. Report of Committee E-9, 636.
List of A.S.T.M. Research Projects. Report of Committee E-9, Appendix, 639.
Yield Point of Structural Steel. Progress Report of Research Committee, 646.

Resistivity.
Tentative Method of Test for Change of Resistance with Temperature of Metallic Materials for Electrical Heating, 757.

Rivets.
Tentative Specifications for Structural Steel for Locomotives and Cars, 651.

Road Materials.
Road and Paving Materials. Report of Committee D-4, 483.
Tentative Method of Test for Distillation of Bituminous Materials Suitable for Road Treatment, 954.
Tentative Revisions of:
Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 1096.
Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1096.
Tentative Specifications for:
Coal-Tar Pitch for Stone Block Filler, 952.
High-Carbon Tar Cement, 948.

Road Materials (*Continued*):
High-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 940.
High-Carbon Tar for Surface Treatment, Cold Application, 936.
High-Carbon Tar for Surface Treatment, Hot Application, 944.
Low-Carbon Tar Cement, 950.
Low-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 942.
Low-Carbon Tar for Surface Treatment, Cold Application, 938.
Low-Carbon Tar for Surface Treatment, Hot Application, 946.

Rockwell Hardness.
See **Hardness Testing.**

Roofing.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 516.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Slate. Report of Committee D-16, 566.
Tentative Methods of Analysis of Roofing Felt for Fiber Composition, 968.

Rosin.
Naval Stores. Report of Committee D-17, 578.
Tentative Method of Test for Determination of Toluol Insoluble Matter in Rosin (Chiefly Sand, Chips, Dirt and Bark), 895.

Rubber Products.
Rubber Products. Report of Committee D-11, 550.
Tentative Revisions of:
Standard Specifications for Adhesive Tape for General Use for Electrical Purposes, 1097.
Standard Specifications for Rubber Belting for Power Transmission, 1096.
Standard Specifications for Rubber Pump Valves, 1097.
Tentative Specifications for Rubber Insulating Tape, 1028.

S

Sand.
Concrete and Concrete Aggregates. Report of Committee C-9, 336.
Editorial Committee. Report of Sub-Committee XII, Committee C-9, 352.
Tentative Specifications for Sand for Use in Lime Plaster, 774.

Scleroscope Hardness.
See **Hardness Testing.**

Screen Cloth.
Screen Wire Cloth. Report of Committee D-14, 562.
Tentative Specifications for Non-Ferrous Insect Screen Cloth, 737.

Sewer Pipe.
Clay and Cement-Concrete Pipe. Report of Committee C-4, 316.
Tentative Revision of Standard Specifications for Cement-Concrete Sewer Pipe, 1094.

Sheet.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Foreign Practice with Respect to Standard Tension Test Specimens. Report of Committee E-1, Appendix, 596.
Tentative Methods of:
Tension Testing of Metallic Materials, 1067.
Testing Sheet and Tape Insulating Materials for Dielectric Strength, 995.
Tentative Specifications for:
Cold-Rolled Strip Steel, 672.
Rolled Zinc, 727.

Shellac.
Shellac. Report of Sub-Committee XIII, Committee D-1, 424.
Tentative Methods of:
Test for Determination of Wax in Shellac ("Machine-Made" and Dry-Bleached Refined Shellac), 869.
Testing Shellac Varnish, 862.
Tentative Revision of Standard Methods of Testing Shellac, 1098.

Sieve.
Proposed Method of Test for Sieve Analysis of Crushed Bituminous Coal. Report of Committee D-5, Appendix IV, 502.
Proposed Method of Test for Sieve Analysis of Coke. Report of Committee D-5, Appendix III, 500.

Silk.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.
Tentative Specifications for Tolerances and Test Methods for Rayon, 1032.

Slag.
Tentative Revisions of:
Standard Specifications for Broken Slag for Waterbound Base and Wearing Course, 1096.
Standard Specifications for Shovel-Run or Crusher-Run Broken Slag for Waterbound Base, 1096.

Slate.
Absorption tests on slate by four testing laboratories, 569.
Modulus of elasticity determinations on slate by four testing laboratories, 571.
Modulus of rupture determinations on slate by four testing laboratories, 570.
Slate. Report of Committee D-16, 566.
Tentative Methods of:
Test for Water Absorption of Slate, 972.
Flexure Testing of Slate, 974.
Test for Determining the Insulating Qualities of Slate, 978.

Sludging Test.
Turbine Oils. Report of Sub-Committee XI, Committee D-2, 469.

Slump Test.
Tests of Fluid Cement-Water Mixtures. Report of Committee C-1, Appendix, 307.

Spalling.
Tentative Definitions of Terms Relating to Refractories, 839.
Tentative Method of Test for Resistance of Fire-Clay Brick to Thermal Spalling Action, 837.

Specific Gravity.
Linseed Oil. Report of Sub-Committee V, Committee D-1, 400.
Methods of Analysis of Paint Materials. Report of Sub-Committee VIII, Committee D-1, 410.
Tentative Method of Test for Field Determination of Approximate Apparent Specific Gravity of Fine Aggregate, 794.

Standing Committees.
Standing Committees. Report of Committee E-5, 608.

Steel.
Corrosion of Iron and Steel. Report of Committee A-5, 175.
Discussion by J. B. Johnson on Etching of Steels with Various Reagents, Abstracted by George F. Comstock. Report of Committee E-4, Appendix, 601.
Discussion on Solutions for Carbides in Alloy Steels, 603.
Effect of Sulfur on Plate Material: Conclusions. Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel, 135.
Effect of Temperature on the Properties of Metals. Progress Report of the Joint Research Committee, 139.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Heat Treatment of Iron and Steel. Report of Committee A-4, 173.
Inspection of the Fort Sheridan and Annapolis Tests. Report of Sub-Committee III, Committee A-5, 180.
Investigation of the Effect of Phosphorus and Sulfur in Steel. Progress Report of the Joint Committee, 131.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committee A-8, Appendix II, 241.
Magnetic Analysis. Report of Committee A-8, 232.
Magnetic Properties. Report of Committee A-6, 225.
A Method of Graphic Representation of Magnetic Characteristics, by A. V. de Forest. Report of Committee A-8, Appendix I, 234. Discussion, 260.
Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I, 143.
Proposed Revisions in Standards and Tentative Standards for Steel. Report of Committee A-1, Appendix III, 120.
Proposed Standardization of Magnetic Terms, Units and Symbols. Report of Sub-Committee I, Committee A-6, Appendix, 228.
Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning. Report of Committee A-1, Appendix II, 115.
Report of Sub-Sub-Committee on Size and Location of Test Coupons on Steel Castings. Report of Committee A-1, Appendix I, 114.

Steel (*Continued*):
Report on Thermal Expansion of Materials. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix II, 153.
Specifications for Metallic-Coated Products. Report of Sub-Committee VI, Committee A-5, 186.
Specifications for Zinc Coating of Iron and Steel. Report of Sectional Committee, 222.
Steel. Report of Committee A-1, 105.
Tentative Definitions of Terms Relating to Heat Treatment Operations (Especially as Related to Ferrous Alloys), 703.
Tentative Methods of:
Compression Testing of Metallic Materials, 1081.
Tension Testing of Metallic Materials, 1067.
Test for Magnetic Properties of Iron and Steel at Low Inductions for Audio and Power Frequencies, 698.
Testing Zinc-Coated (Galvanized) Iron and Steel Wire and Wire Products, 696.
Tentative Revisions of:
Standard Methods of Test for Magnetic Properties of Iron and Steel, 1091.
Standard Specifications for Steel Track Spikes, 1089.
Tentative Specifications for:
Alloy Tool Steel, 676.
Cold-Rolled Strip Steel, 672.
Forged or Rolled Steel Pipe Flanges for High-Temperature Service, 663.
Lap-Welded and Seamless Steel Pipe for High-Temperature Service, 667.
Marine Boiler Steel Plates, 658.
Structural Steel for Locomotives and Cars, 651.
Zinc-Coated Chain-Link Fence Fabric Galvanized After Weaving, 690.
Zinc-Coated Chain-Link Fence Fabric Galvanized Before Weaving, 693.
Zinc-Coated (Galvanized) Iron or Steel Telephone and Telegraph Line Wire, 679.
Zinc-Coated (Galvanized) Iron or Steel Tie Wires, 684.
Zinc-Coated (Galvanized) Wire Fencing, 687.
The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, by J. A. Sams. Report of Committee A-8, Appendix IV, 252.
Total Immersion Tests. Report of Sub-Committee V, Committee A-5, 183.
X-ray Studies of High-Speed Steel, by Ancel St. John. Report of Committee A-8, Appendix III, 247.
Yield Point of Structural Steel. Progress Report of Research Committee, 646.

Stone.
Concrete and Concrete Aggregates. Report of Committee C-9, 336.
Editorial Committee. Report of Sub-Committee XII, Committee C-9, 352.
Natural Building Stones. Report of Committee D-18, 580.

Strip Steel.
Tentative Specifications for Cold-Rolled Strip Steel, 672.

Structural Steel.
See **Steel.**

Sugar Bags.
Tentative Specifications and Tests for Cuban (Jute) Raw Sugar Bags, 1041.
Textile Materials. Report of Committee D-13, 555.

Sulfur.
Effect of Sulfur on Plate Material: Conclusions. Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel, 135.
Investigation of the Effect of Phosphorus and Sulfur in Steel. Progress Report of the Joint Committee, 131.
Results of tests on sulfur determination by A.S.T.M. Method D 90 - 26 T and Kennedy vapor lamp method, 456.
Sulfur Determination and Differentiation. Report of Sub-Committee VII, Committee D-2, 456.
Tentative Method of Test for Detection of Free Sulfur and Corrosive Sulfur Compounds in Gasoline, 926.
Tentative Methods for the Determination of Sulfur in Coal and Coke by the Bomb-Washing and Sodium Peroxide Fusion Methods, 959.

Summary of the Proceedings.
Summary of the Proceedings of the Thirtieth Annual Meeting, 13.

Surface Moisture.
Tentative Method of Test for Field Determination of Surface Moisture in Fine Aggregate, 800.

T

Tape.
Tentative Method of Testing Sheet and Tape Insulating Materials for Dielectric Strength, 995.
Tentative Revision of Standard Specifications for Adhesive Tape for General Use for Electrical Purposes, 1097.
Tentative Specifications for Rubber Insulating Tape, 1028.

Tar Products.
Tentative Methods of:
Test for Distillation of Bituminous Materials Suitable for Road Treatment, 954.
Test for Distillation of Creosote Oil, 963.
Tentative Specifications for:
Coal-Tar Pitch for Stone Block Filler, 952.
High-Carbon Tar Cement, 948.
High-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 940.
High-Carbon Tar for Surface Treatment, Cold Application, 936.
High-Carbon Tar for Surface Treatment, Hot Application, 944.
Low-Carbon Tar Cement, 950.
Low-Carbon Tar Cement for Use Cold in Repair Work (Cut-Back Product), 942.
Low-Carbon Tar for Surface Treatment, Cold Application, 938.
Low-Carbon Tar for Surface Treatment, Hot Application, 946.

Tensile Strength.
Tentative Methods of Testing Electrical Porcelain, 981.

Tension Testing.
Foreign Practice with Respect to Standard Tension Test Specimens. Report of Committee E-1, Appendix, 596.
Methods of Testing. Report of Committee E-1, 584.
Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I, 143.
Tentative Methods of:
Tension Testing of Metallic Materials, 1067.
Testing Untreated Insulating Paper, 1013.

Terne Plate.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.

Testing Apparatus.
Life Test for Transformer Oils. Report of Committee D-9, Appendix, 541.
Proposed Oxidation Test for Mineral Oils (Sligh Method). Report of Sub-Committee X, Committee D-2, Appendix, 461.
Tentative Methods of:
Compression Testing of Metallic Materials, 1081.
Tension Testing of Metallic Materials, 1067.
Tentative Specifications for Rolled Zinc, 727.
The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, by J. A. Sams. Report of Committee A-8, Appendix IV, 252.

Testing, Methods of.
Application of Tests. Report of Sub-Committee XXVII, Committee D-2, 478.
Considerations Involved in the Preparation of Specifications for Domestic Oil Fuel. Report of Sub-Committee XXVII, Committee D-2, Appendix, 479.
Electrical Insulating Materials. Report of Committee D-9, 525.
Life Test for Transformer Oils. Report of Committee D-9, Appendix, 541.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committee A-8, Appendix II, 241.
A Method of Graphic Representation of Magnetic Characteristics, by A. V. de Forest. Report of Committee A-8, Appendix I, 234. Discussion, 260.
Methods of Testing. Report of Committee E-1, 584.
Methods of Testing. Report of Sub-Committee VII, Committee A-5, 188.
Methods of Testing. Report of Sub-Committee IX, Committee D-7, 511.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Tentative Methods of Compression Testing of Metallic Materials, 1081.
Tentative Methods of Tension Testing of Metallic Materials, 1067.
Tentative Specifications for Rolled Zinc, 727.
X-ray Studies of High-Speed Steel, by Ancel St. John. Report of Committee A-8, Appendix III, 247.

Textile Materials.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Tentative Definitions of Terms Relating to Textile Materials, 1066.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.

Textile Materials (*Continued*):
Tentative Specifications and Tests for Cuban (Jute) Raw Sugar Bags, 1041.
Tentative Specifications for:
Tolerances and Test Methods for Certain Light and Medium Cotton Fabrics, 1039.
Tolerances and Test Methods for Rayon, 1032.
Textile Materials. Report of Committee D-13, 555.

Thermal Expansion.
Report on Thermal Expansion of Materials. Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix II, 153.

Thermometers.
Tentative Methods of:
Test for Cloud and Pour Points of Petroleum Products, 919.
Test for Distillation of Bituminous Materials Suitable for Road Treatment, 954.
Test for Distillation of Creosote Oil, 963.
Thermometers. Report of Committee D-15, 564.

Tile.
Drain Tile. Report of Committee C-6, 318.
Gypsum. Report of Committee C-11, 393.
Hollow Masonry Building Units. Report of Committee C-10, 387.
Tentative Specifications and Tests for Hollow Burned-Clay Fireproofing, Partition and Furring Tile, 841.

Timber.
Methods of Testing. Report of Sub-Committee IX, Committee D-7, 511.
Moisture Determination. Report of Sub-Committee XI, Committee D-7, 513.
Preservatives. Report of Sub-Committee VI, Committee D-7, 507.
Specifications for Timber. Report of Sub-Committee I, Committee D-7, 506.
Timber. Report of Committee D-7, 503.

Timber Preservatives.
Preservatives. Report of Sub-Committee VI, Committee D-7, 507.
Results of distillation tests on creosote oil, employing three methods of shielding flask, 508.
Tentative Method of Test for Distillation of Creosote Oil, 963.

Titanium Barium Pigment.
Tentative Specifications for Titanium Barium Pigment, 858.

Toluol Insoluble Matter.
Naval Stores. Report of Committee D-17, 578.
Tentative Method of Test for Determination of Toluol Insoluble Matter in Rosin (Chiefly Sand, Chips, Dirt and Bark), 895.

Tool Steel.
Magnetic Analysis by Means of the Cathode-Ray Oscillograph, by Thomas Spooner. Report of Committee A-8, Appendix II, 241.
Tentative Specifications for Alloy Tool Steel, 676.
The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, by J. A. Sams. Report of Committee A-8, Appendix IV, 252.
X-ray Studies of High-Speed Steel, by Ancel St. John. Report of Committee A-8, Appendix III, 247.

Track Spikes.
Tentative Revision of Standard Specifications for Steel Track Spikes, 1089.

Transformer Oils.
Life Test for Transformer Oils. Report of Committee D-9, Appendix, 541.

Transverse Testing.
Modulus of rupture determinations on slate by four testing laboratories, 570.
Methods of Testing. Report of Committee E-1, 584.
Tentative Methods of:
Flexure Testing of Slate, 974.
Testing Brick, 826.
Testing Electrical Porcelain, 981.

Trolley Wire.
Tentative Specifications for Bronze Trolley Wire, 709.

Tubes.
Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning. Report of Committee A-1, Appendix II, 115.
Tentative Revision of Standard Specifications for Seamless Admiralty Condenser Tubes and Ferrule Stock, 1093.
Tentative Specifications for Copper Tubing for Refrigerators, 725.

Twenty-Fifth Anniversary.
Proceedings of the Twenty-Fifth-Anniversary Dinner, 47.

U

Ultramarine Blue.
Tentative Specifications for Ultramarine Blue, 852.

V

Valves.
Tentative Revision of Standard Specifications for Rubber Pump Valves, 1097.

Varnish.
Tentative Methods of Testing Shellac Varnish, 862.
Tentative Revision of Standard Methods of Testing Oleo-Resinous Varnishes, 1098.

Voids.
Tentative Method of Test for Field Determination of Approximate Percentage of Voids in Fine Aggregate, 797.

W

Waterproofing.
Bituminous Waterproofing and Roofing Materials. Report of Committee D-8, 516.
Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition. Report of Committee D-8, Appendix, 521.
Tentative Methods of Analysis of Roofing Felt for Fiber Composition, 968.

Wax.
Paraffin Wax. Report of Sub-Committee III, Committee D-2, 450.
Proposed Method of Determining Oil in Refined and Semi-Refined Wax. Report of Sub-Committee III, Committee D-2, Appendix, 452.
Tentative Method of:
Sampling Petroleum and Petroleum Products, 896.
Test for Determination of Wax in Shellac ("Machine-Made" and Dry Bleached Refined Shellac), 869.

Welding.
Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning. Report of Committee A-1, Appendix II, 115.

Wire.
Copper Wire. Report of Committee B-1, 266.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Screen Wire Cloth. Report of Committee D-14, 562.
Specifications for Metallic-Coated Products. Report of Sub-Committee VI, Committee A-5, 186.
Tentative Methods of:
Test for Change of Resistance with Temperature of Metallic Materials for Electrical Heating, 757.
Testing Zinc-Coated (Galvanized) Iron and Steel Wire and Wire Products, 696.
Tentative Specifications for:
Bronze Trolley Wire, 709.
Non-Ferrous Insect Screen Cloth, 737.
Rubber Insulating Tape, 1028.
Zinc-Coated Chain-Link Fence Fabric Galvanized After Weaving, 690.
Zinc-Coated Chain-Link Fence Fabric Galvanized Before Weaving, 693.
Zinc-Coated (Galvanized) Iron or Steel Telephone and Telegraph Line Wire, 679.
Zinc-Coated (Galvanized) Iron or Steel Tie Wires, 684.
Zinc-Coated (Galvanized) Wire Fencing, 687.

Wood.
See **Timber.**

Wool.
Tentative Methods for Identification of Textile Fibers and Their Quantitative Determination in Mixed Goods, 1044.

Wrought Iron.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Wrought Iron. Report of Committee A-2, 163.

X

X-ray.
X-ray Studies of High-Speed Steel, by Ancel St. John. Report of Committee A-8, Appendix III, 247.

Y

Yarn.
Tentative Specifications for Tolerances and Test Methods for Rayon, 1032.

Yield Point.
Yield Point of Structural Steel. Progress Report of Research Committee, 646.

Z

Zinc.
Corrosion of Non-Ferrous Metals and Alloys. Report of Committee B-3, 281.
Field Tests of Metallic Coatings. Report of Sub-Committee VIII, Committee A-5, 191.
Methods of Testing. Report of Sub-Committee VII, Committee A-5, 188.
Non-Ferrous Metals and Alloys. Report of Committee B-2, 271.
Specifications for Zinc Coating of Iron and Steel. Report of Sectional Committee, 222.
Tentative Methods of Testing Zinc-Coated (Galvanized) Iron and Steel Wire and Wire Products, 696.
Tentative Specifications for:
Non-Ferrous Insect Screen Cloth, 737.
Rolled Zinc, 727.
Zinc-Coated Chain-Link Fence Fabric Galvanized After Weaving, 690.
Zinc-Coated Chain-Link Fence Fabric Galvanized Before Weaving, 693.
Zinc-Coated (Galvanized) Iron or Steel Telephone and Telegraph Line Wire, 679.
Zinc-Coated (Galvanized) Iron or Steel Tie Wires, 684.
Zinc-Coated (Galvanized) Wire Fencing, 687.

AUTHOR INDEX

A

Abraham, Herbert.
Report of Committee D-8, Appendix: Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition, 521.

Abrams, D. A.
Discussion, 386.

Adler, Julius.
Report of Committee D-4 on Road and Paving Materials, 483.

Anderson, R. P.
Report of Committee D-2 on Petroleum Products and Lubricants, 439.

Aston, James.
Report of Committee A-5 on Corrosion of Iron and Steel, 175.

B

Bash, F. E.
Report of Committee B-4 on Metallic Materials for Electrical Heating, 299.

Bassett, W. H.
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 271.
Report of Committee D-14 on Screen Wire Cloth, 562.

Bates, P. H.
Report of Committee C-1 on Cement, 304.

Baxter, F. R.
Report of Sub-Committee XXIII, Committee D-2, on Carbon Residue, 473.

Berry, H. C.
Report of Committee C-7 on Lime, 324.

Bole, G. A.
Report of Committee C-8 on Refractories, 330.

Bonney, R. D.
Report of Sub-Committee V, Committee D-1, on Linseed Oil, 400.

Bornstein, Hyman.
Report of Committee A-3 on Cast Iron, 167.

Bowles, J. T-B.
Report of Sub-Committee XI, Committee D-2, on Turbine Oils, 469.

Boyd, D. K.
Report of Committee D-16 on Slate, 566.

Boylston, H. M.
Report of Committee A-4 on Heat Treatment of Iron and Steel, 173.

Boynton, H. C.
Report of Committee E-4 on Metallography, 597.

Breyer, F. G.
Report of Committee D-11 on Rubber Products, 550.

Brightly, H. S.
Report of Committee D-18 on Natural Building Stones, 580.

Brookby, H. E.
Report of Committee C-11 on Gypsum, 393.

Burgess, G. K.
Progress Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel, 131.
Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel: Effect of Sulfur on Plate Material: Conclusions, 135.

C

Capp, J. A.
Report of Committee A-1, Appendix I: Report of Sub-Sub-Committee on Size and Location of Test Coupons on Steel Castings, 114.
Report of Committee B-1 on Copper Wire, 266.
Report of Committee E-1 on Methods of Testing, 584.
Report of Sectional Committee on Specifications for Zinc Coating of Iron and Steel, 222.

Chapman, Cloyd M.
Report of Committee C-9 on Concrete and Concrete Aggregates, 336.
Report of Committee E-8 on Nomenclature and Definitions, 622.

Church, S. R.
Report of Sub-Committee VI, Committee D-7, on Preservatives, 507.

Clayden, A. L.
Report of Sub-Committee X, Committee D-2, on Oxidation at High Temperatures, 460.

Comstock, G. F.
Report of Committee E-4, Appendix I: Discussion by J. B. Johnson on Etching of Steels with Various Reagents, Abstracted by George F. Comstock, 601.
Report of Committee E-4 on Metallography, 597.

Cook, K. B.
Report of Committee D-13 on Textile Materials, 555.

Cooper, William A.
Report of Sub-Committee V, Committee A-5, on Total Immersion Tests, 183.

D

de Forest, A. V.
Report of Committee A-8, Appendix I: A Method of Graphic Representation of Magnetic Characteristics, 234.
Report of Committee A-8 on Magnetic Analysis, 232.
Discussion, 260, 262.

Dunlap, M. E.
Report of Sub-Committee XI, Committee D-7, on Moisture Determination, 513.

E

Edwards, W. F.
Report of Committee D-13 on Textile Materials, 555.

Elwell, J. S.
Report of Committee C-7 on Lime, 324.

F

Fieldner, A. C.
Report of Committee D-5 on Coal and Coke, 492.

Force, H. J.
Report of Committee A-2 on Wrought Iron, 163.

Foster, H. D.
Report of Committee C-10 on Hollow Masonry Building Units, 387.

Freeman, P. J.
Report of Sub-Committee X, Committee C-9, on Conditions Affecting the Durability of Concrete, 349.

French, H. J.
Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I: Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories, 143.

Fuller, T. S.
Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 281.

Fuller, W. R.
Report of Sub-Committee XXV, Committee D-1, on Cellulose Ester Coatings, 438.

Fulweiler, W. H.
Report of Committee D-15 on Thermometers, 564.
Twenty-Fifth-Anniversary Dinner, 47, 50, 59.

G

Gibboney, James H.
Annual Address by the President, 62.
Annual Report of the Executive Committee, 71.
Report of Committee A-5 on Corrosion of Iron and Steel, 175.
Report of Sub-Committee III, Committee A-5, on Inspection of the Fort Sheridan and Annapolis Tests, 180.
Twenty-Fifth-Anniversary Dinner, 50, 52, 54, 56, 60.

Ginder, J. W.
Report of Committee C-11 on Gypsum, 393.

Goldbeck, A. T.
Report of Sub-Committee XII, Committee C-9, Editorial Committee, 352.

Grafton, E. H.
Report of Committee D-11 on Rubber Products, 550.

Groesbeck, E. C.
Discussion, 603.

H

Hall, J. H.
Report of Committee A-4 on Heat Treatment of Iron and Steel, 173.

Hallett, R. L.
Report of Committee D-1 on Preservative Coatings for Structural Materials, 396.

Hammond, G. T.
Report of Committee C-4 on Clay and Cement-Concrete Pipe, 316.

Harris, W. J.
Discussion, 260.

Harvey, Dean.
Report of Committee B-4 on Metallic Materials for Electrical Heating, 299.

Herschel, W. H.
Report of Sub-Committee I, Committee D-2, on Petrolatum, 448.

Hess, R. E.
Report of Committee E-1 on Methods of Testing, 584.
Report of Committee E-8 on Nomenclature and Definitions, 622.

Hocker, C. D.
Report of Sub-Committee VII, Committee A-5, on Methoods of Testing, 188.

Hubbard, Prevost.
Report of Committee D-4 on Road and Paving Materials, 483.
Report of Committee D-8 on Bituminous Waterproofing and Roofing Materials, 516.

Hull, F. A.
Report of Committee D-2 on Petroleum Products and Lubricants, 439.
Report of Sub-Committee VIII, Committee A-5, on Field Tests of Metallic Coatings, 191.

Humphrey, Richard L.
Twenty-Fifth-Anniversary Dinner, 52.

J

Jackson, F. H.
Report of Committee C-1 on Cement, 304.

Joannes, F. Y.
Report of Committee D-18 on Natural Building Stones, 580.

Johansen, Ernst.
Report of Sub-Committee VII, Committee D-2, on Sulfur Determination and Differentiation, 456.

Johnson, J. B.
Report of Committee E-4, Appendix I: Discussion by J. B. Johnson on Etching of Steels with Various Reagents, Abstracted by George F. Comstock, 601.

K

Kessler, D. W.
Report of Committee D-16 on Slate, 566.

L

Langenberg, F. C.
Report of Committee A-9 on Ferro-Alloys, 263.

Lawson, T. R.
Report of Committee C-3 on Brick, 313.

Libby, C. E.
Report of Committee D-8, Appendix: Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition, 521.

Link, M. W.
Report of Committee A-1, Appendix II: Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning, 115.

Lunn, C. A.
Report of Sub-Committee XXVII, Committee D-2, on Application of Tests, 478.

M

MacPherran, R. S.
Report of Committee A-3 on Cast Iron, 167.

Markwardt, L. J.
Report of Sub-Committee IX, Committee D-7, on Methods of Testing, 511.

Marston, Anson.
Report of Committee C-6 on Drain Tile, 318.
Report of Society Representatives on Joint Committee on Concrete Culvert Pipe, 321.

Masters, F. M.
Discussion, 261.

McAdam, D. J., Jr.
Twenty-Fifth-Anniversary Dinner, 60.

McBurney, J. W.
Report of Committee C-3 on Brick, 313.

McKnight, Charles.
Report of Committee A-9 on Ferro-Alloys, 263.

Merica, P. D.
Report of Committee B-2 on Non-Ferrous Metals and Alloys, 271.

Mochel, N. L.
Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix II: Report on Thermal Expansion of Materials, 153.

Moore, H. F.
Report of Committee E-9 on Correlation of Research, 636.
Twenty-Fifth-Anniversary Dinner, 59.

Morgan, H. H.
Report of Committee A-1, Appendix II: Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning, 115.

Muckenfuss, A. M.
Report ot Sub-Committee XXIII, Committee D-1, on Anti-Fouling Paints, 430.

N

Nelson, R. A.
Report of Committee C-9, Appendix I: A Study of the Data of "Series 201" and Wisconsin Tests Showing the Relation of the Compressive Strength of Concrete to the Water-Cement Ratio, Space-Cement Ratio and Grading of the Aggregate, 361.

Newlin, J. A.
Report of Committee D-7 on Timber, 503.

P

Paisley, J. W.
Report of Sub-Committee XIII, Committee D-1, on Shellac, 424.

Parsons, D. E.
Report of Committee C-10 on Hollow Masonry Building Units, 387.

Parsons, L. W.
Report of Sub-Committee IX, Committee D-2, on Precipitation, 458.

Paul, C. E.
Report of Sub-Committee I, Committee D-7, on Specifications for Timber, 506.

Phillips, A. E.
Report of Society Representatives on Joint Committee on Concrete Culvert Pipe, 321.

Pickels, G. W.
Report of Committee C-6 on Drain Tile, 318.

Porter, H. C.
Report of Committee D-5 on Coal and Coke, 492.

Provost, A. J., Jr.
Report of Committee C-4 on Clay and Cement-Concrete Pipe, 316.

Putnam, W. P.
Report of Committee A-7 on Malleable Castings, 231.

R

Rankin, E. S.
Report of Committee C-4 on Clay and Cement-Concrete Pipe, 316.

Rather, J. B.
Report of Sub-Committee III, Committee D-2, on Paraffin Wax, 450.

Reeve, C. S.
Report of Committee D-15 on Thermometers, 564.

Reinhardt, G. A.
Report of Committee A-1, Appendix II: Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning, 115.

Rogers, Allen.
Report of Committee D-1 on Preservative Coatings for Structural Materials, 396.

S

Saathoff, G. W.
Progress Report of Joint Research Committee on Effect of Temperature on the Properties of Metals, 139.

St. John, Ancel.
Report of Committee A-8, Appendix III: X-ray Studies of High-Speed Steel, 247.

Sams, J. A.
Report of Committee A-8, Appendix IV: The Duroscope: An Apparatus for the Magnetic Determination of the Durability of Steels, 252.

Sanford, R. L.
Report of Committee A-6 on Magnetic Properties, 225.
Report of Committee A-8 on Magnetic Analysis, 232.
Discussion, 261, 262.

Schweim, H. J.
Report of Committee C-11 on Gypsum, 393.

Selvig, W. A.
Report of Committee D-5 on Coal and Coke, 492.

Shackelton, W. J.
Report of Sub-Committee I, Committee A-6, on Nomenclature and Definitions, 227.

Sligh, T. S., Jr.
Report of Sub-Committee XXV, Committee D-2, on Crankcase Dilution, 477.

Smith, H. E.
Report of Sub-Committee VI, Committee A-5, on Specifications for Metallic-Coated Products, 186.
Report of Sub-Committee XV, Committee D-1, on Specifications for Pigments Dry and in Oil when Marketed in that Form, 427.

Smither, F. W.
Report of Sub-Committee VIII, Committee D-1, on Methods of Analysis of Paint Materials, 410.

Speh, C. F.
Report of Committee D-17 on Naval Stores, 578.

Speller, F. N.
Report of Committee A-1, Appendix II: Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning, 115.

Spooner, Thomas.
Report of Committee A-6 on Magnetic Properties, 225.
Report of Committee A-8, Appendix II: Magnetic Analysis by Means of the Cathode-Ray Oscillograph, 241.

Spring, L. W.
Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I: Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories, 143.

Stevenson, A. A.
Twenty-Fifth-Anniversary Dinner, 56.

Strieter, O. G.
Report of Committee D-8, Appendix: Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition, 521.

Stuart, G. J.
Report of Committee A-1, Appendix II: Report of Special Sub-Committee on Investigation of Single *versus* Double-Run Lap-Welded Pipe for Vanstoning, 115.

T

Taylor, T. S.
Report of Committee D-9 on Electrical Insulating Materials, 525.

Touceda, Enrique.
Report of Committee A-7 on Malleable Castings, 231.

Tour, Sam.
Report of Committee B-3 on Corrosion of Non-Ferrous Metals and Alloys, 281.

Trostel, L. J.
Report of Committee C-8 on Refractories, 330.

Tuthill, S. S.
Report of Sectional Committee on Specifications for Zinc Coating of Iron and Steel, 222.

U

Upthegrove, Clair.
Progress Report of the Joint Research Committee on Effect of Temperature on the Properties of Metals, Appendix I: Preliminary Report on Comparative High-Temperature Tension Tests on a Carbon Steel and on a Chromium-Molybdenum Steel at Different Laboratories, 143.

V

Van Deventer, F. M.
Progress Report of Joint Research Committee on Effect of Temperature on the Properties of Metals, 139.

Vassar, H. S.
Report of Committee D-9 on Electrical Insulating Materials, 525.

Veitch, F. P.
Report of Committee D-17 on Naval Stores, 578.

von Schrenk, Hermann.
Report of Committee D-7 on Timber, 503.

W

Wagner, S. T.
Report of Committee D-8 on Bituminous Waterproofing and Roofing Materials, 516.
Twenty-Fifth-Anniversary Dinner, 54.

Walker, Stanton.
Report of Committee C-9 on Concrete and Concrete Aggregates, 336.

Warwick, C. L.
Annual Report of the Executive Committee, 71.
Progress Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel, 131.
Report of the Joint Committee on Investigation of the Effect of Phosphorus and Sulfur in Steel: Effect of Sulfur on Plate Material: Conclusions, 135.
Report of Committee E-5 on Standing Committees, 608.
Report of Committee E-6 on Papers and Publications, 619.
Report of Committee E-9 on Correlation of Research, 636.
Twenty-Fifth-Anniversary Dinner, 50, 53, 55.

Weiss, J. M.
Report of Committee D-8, Appendix: Report of Special Sub-Committee on Cooperative Tests on Analysis of Roofing Felt for Fiber Composition, 521.

White, J. A.
Discussion, 261.

Wilson, R. E.
Report of Sub-Committee IV, Committee D-2, on Grease, 455.

Withey, M. O.
Discussion, 386.
Progress Report of Research Committee on Yield Point of Structural Steel, 646.

Woodroffe, G. H.
Report of Committee A-1 on Steel, 105.
Report of Committee A-2 on Wrought Iron, 163.

Woodward, R. W.
Report of Committee D-14 on Screen Wire Cloth, 562.

Y

Young, J. B.
Report of Committee A-1 on Steel, 105.

Young, R. B.
Report of Sub-Committee IV, Committee C-9, on Design of Concrete, 345.